

## RAW SEQUENCE LISTING

DATE: 08/01/2001

PATENT APPLICATION: US/09/719,088A

TIME: 14:21:53

Input Set : A:\92979.txt

Output Set: N:\CRF3\08012001\I719088A.raw

ENTERED

4 <110> APPLICANT: Garvan Institute of Medical Research  
6 <120> TITLE OF INVENTION: NPY-Y7 Receptor Gene  
W--> 0 <130> FILE REFERENCE:  
C--> 8 <140> CURRENT APPLICATION NUMBER: US/09/719,088A  
C--> 9 <141> CURRENT FILING DATE: 2001-05-09  
11 <150> PRIOR APPLICATION NUMBER: PP 4385  
12 <151> PRIOR FILING DATE: 1998-06-29  
14 <160> NUMBER OF SEQ ID NOS: 5  
16 <170> SOFTWARE: PatentIn Ver. 2.1  
18 <210> SEQ ID NO: 1  
19 <211> LENGTH: 14  
20 <212> TYPE: PRT  
21 <213> ORGANISM: Artificial Sequence  
23 <220> FEATURE:  
24 <223> OTHER INFORMATION: Description of Artificial Sequence: N-terminal  
25 consensus sequence  
27 <220> FEATURE:  
W--> 28 <221> NAME/KEY: misc-feature  
29 <222> LOCATION: (2)/(3)..(5)..(10)  
30 <223> OTHER INFORMATION: Xaa = any codable amino acid  
32 <400> SEQUENCE: 1  
W--> 33 Met Xaa Xaa Met Xaa Glu Lys Trp Asp Xaa Asn Ser Ser Glu  
34 1 5 10  
37 <210> SEQ ID NO: 2  
38 <211> LENGTH: 408  
39 <212> TYPE: PRT  
40 <213> ORGANISM: Homo sapiens  
42 <400> SEQUENCE: 2  
43 Met Phe Ile Met Asn Glu Lys Trp Asp Thr Asn Ser Ser Glu Asn Trp  
44 1 5 10 15  
46 His Pro Ile Trp Asn Val Asn Asp Thr Lys His His Leu Tyr Ser Asp  
47 20 25 30  
49 Ile Asn Ile Thr Tyr Val Asn Tyr Tyr Leu His Gln Pro Gln Val Ala  
50 35 40 45  
52 Ala Ile Phe Ile Ile Ser Tyr Phe Leu Ile Phe Phe Leu Cys Met Met  
53 50 55 60  
55 Gly Asn Thr Val Val Cys Phe Ile Val Met Arg Asn Lys His Met His  
56 65 70 75 80  
58 Thr Val Thr Asn Leu Phe Ile Leu Asn Leu Ala Ile Ser Asp Leu Leu  
59 85 90 95  
61 Val Gly Ile Phe Cys Met Pro Ile Thr Leu Leu Asp Asn Ile Ile Ala  
62 100 105 110  
64 Gly Trp Pro Phe Gly Asn Thr Met Cys Lys Ile Ser Gly Leu Val Gln  
65 115 120 125  
67 Gly Ile Ser Val Ala Ala Ser Val Phe Thr Leu Val Ala Ile Ala Val  
68 130 135 140  
70 Asp Arg Phe Gln Cys Val Val Tyr Pro Phe Lys Pro Lys Leu Thr Ile

## RAW SEQUENCE LISTING

DATE: 08/01/2001

PATENT APPLICATION: US/09/719,088A

TIME: 14:21:53

Input Set : A:\92979.txt

Output Set: N:\CRF3\08012001\I719088A.raw

```

71 145          150          155          160
73 Lys Thr Ala Phe Val Ile Ile Met Ile Ile Trp Val Leu Ala Ile Thr
74          165          170          175
76 Ile Met Ser Pro Ser Ala Val Met Leu His Val Gln Glu Glu Lys Tyr
77          180          185          190
79 Tyr Arg Val Arg Leu Asn Ser Gln Asn Lys Thr Ser Pro Val Tyr Trp
80          195          200          205
82 Cys Arg Glu Asp Trp Pro Asn Gln Glu Met Arg Lys Ile Tyr Thr Thr
83          210          215          220
85 Val Leu Phe Ala Asn Ile Tyr Leu Ala Pro Leu Ser Leu Ile Val Ile
86 225          230          235          240
88 Met Tyr Gly Arg Ile Gly Ile Ser Leu Phe Arg Ala Ala Val Pro His
89          245          250          255
91 Thr Gly Arg Lys Asn Gln Glu Gln Trp His Val Val Ser Arg Lys Lys
92          260          265          270
94 Gln Lys Ile Ile Lys Met Leu Leu Ile Val Ala Leu Leu Phe Ile Leu
95          275          280          285
97 Ser Trp Leu Pro Leu Trp Thr Leu Met Met Leu Ser Asp Tyr Ala Asp
98          290          295          300
100 Leu Ser Pro Asn Glu Leu Gln Ile Ile Asn Ile Tyr Ile Tyr Pro Phe
101 305          310          315          320
103 Ala His Trp Leu Ala Phe Gly Asn Ser Ser Val Asn Pro Ile Ile Tyr
104          325          330          335
106 Gly Phe Phe Asn Glu Asn Phe Arg Arg Gly Phe Gln Glu Ala Phe Gln
107          340          345          350
109 Leu Gln Leu Cys Gln Lys Arg Ala Lys Pro Met Glu Ala Tyr Thr Leu
110          355          360          365
112 Lys Ala Lys Ser His Val Leu Ile Asn Thr Ser Asn Gln Leu Val Gln
113          370          375          380
115 Glu Ser Thr Phe Gln Asn Pro His Gly Glu Thr Leu Leu Tyr Arg Lys
116 385          390          395          400
118 Ser Ala Glu Asn Pro Asn Arg Asn
119          405
122 <210> SEQ ID NO: 3
123 <211> LENGTH: 405
124 <212> TYPE: PRT
125 <213> ORGANISM: Mus musculus
127 <400> SEQUENCE: 3
128 Met Ser Thr Met Ser Glu Lys Trp Asp Ser Asn Ser Ser Glu Ser Trp
129 1          5          10          15
131 Asn His Ile Trp Ser Gly Asn Asp Thr Gln His His Trp Tyr Ser Asp
132          20          25          30
134 Ile Asn Ile Thr Tyr Val Asn Tyr Tyr Leu His Gln Pro Gln Val Ala
135          35          40          45
137 Ala Val Phe Ile Ser Ser Tyr Leu Leu Ile Phe Val Leu Cys Met Val
138          50          55          60
140 Gly Asn Thr Val Val Cys Phe Ile Val Ile Arg Asn Arg His Met His
141 65          70          75          80
143 Thr Val Thr Asn Phe Leu Ile Leu Asn Leu Ala Ile Ser Asp Leu Leu

```

## RAW SEQUENCE LISTING

DATE: 08/01/2001

PATENT APPLICATION: US/09/719,088A

TIME: 14:21:53

Input Set : A:\92979.txt

Output Set: N:\CRF3\08012001\I719088A.raw

```

144          85          90          95
146 Val Gly Ile Phe Cys Met Pro Ile Thr Leu Leu Asp Asn Ile Ile Ala
147          100          105          110
149 Gly Trp Pro Phe Gly Ser Ser Met Cys Lys Ile Ser Gly Leu Val Gln
150          115          120          125
152 Gly Ile Ser Val Ala Ala Ser Val Phe Thr Leu Val Ala Ile Ala Val
153          130          135          140
155 Asp Arg Phe Arg Cys Val Val Tyr Pro Phe Lys Pro Lys Leu Thr Val
156 145          150          155          160
158 Lys Thr Ala Phe Val Thr Ile Val Ile Ile Trp Gly Leu Ala Ile Ala
159          165          170          175
161 Ile Met Thr Pro Ser Ala Ile Met Leu His Val Gln Glu Glu Lys Tyr
162          180          185          190
164 Tyr Arg Val Arg Leu Ser Ser His Asn Lys Thr Ser Thr Val Tyr Trp
165          195          200          205
167 Cys Arg Glu Asp Trp Pro Arg His Glu Met Arg Arg Ile Tyr Thr Thr
168          210          215          220
170 Val Leu Phe Ala Ile Ile Tyr Leu Ala Pro Leu Ser Leu Ile Val Ile
171 225          230          235          240
173 Met Tyr Ala Arg Ile Gly Ala Ser Leu Phe Lys Thr Ala Ala His Cys
174          245          250          255
176 Thr Gly Lys Gln Arg Pro Val Gln Cys Met Tyr Gln Glu Lys Gln Lys
177          260          265          270
179 Val Ile Lys Met Leu Leu Thr Val Ala Leu Leu Phe Ile Leu Ser Trp
180          275          280          285
182 Leu Pro Leu Trp Thr Leu Met Met Leu Ser Asp Tyr Thr Asp Leu Ser
183          290          295          300
185 Pro Asn Lys Leu Arg Ile Ile Asn Ile Tyr Ile Tyr Pro Phe Ala His
186 305          310          315          320
188 Trp Leu Ala Phe Cys Asn Ser Ser Val Asn Pro Ile Ile Tyr Gly Phe
189          325          330          335
191 Phe Asn Glu Asn Phe Arg Asn Gly Phe Gln Asp Ala Phe Gln Ile Cys
192          340          345          350
194 Gln Lys Lys Ala Lys Pro Gln Glu Ala Tyr Ser Leu Arg Ala Lys Arg
195          355          360          365
197 Asn Ile Val Ile Asn Thr Ser Gly Leu Leu Val Gln Glu Pro Val Ser
198          370          375          380
200 Gln Asn Pro Gly Gly Glu Asn Leu Gly Cys Gly Lys Ser Ala Asp Asn
201 385          390          395          400
203 Pro His Arg Asn Pro
204          405
207 <210> SEQ ID NO: 4
208 <211> LENGTH: 1903
209 <212> TYPE: DNA
210 <213> ORGANISM: Homo sapiens
212 <400> SEQUENCE: 4
213 ctcgagatcc attgtgctct aaaggcctcc tgagtagctg ggactacagg cgcccgccac 60
214 cacgcctggc taattttttt gtatttttag tagggacggc gtttcactgt gttagccaga 120
215 tgggtctccat ctcccgacct cgtgatccac ccacctcggc ctcccaaagt gctgggatta 180

```

## RAW SEQUENCE LISTING

DATE: 08/01/2001

PATENT APPLICATION: US/09/719,088A

TIME: 14:21:53

Input Set : A:\92979.txt

Output Set: N:\CRF3\08012001\I719088A.raw

```

216 caggcgtgag accgcgcccc gccaatttcc ttctcttagtt gcctctgccc acctcttctc 240
217 ttctgcttcc atattacagg ttctctcagt tgcgaaatta ggatgttaat tatagctttt 300
218 gacatacaag aaacatcaaa aagattgaat gtcttaataa gagtgaagca tgtagatcag 360
219 tgactgctat gttcatcatg aatgagaaat gggacacaaa ctcttcagaa aactggcatc 420
220 ccatctggaa tgtcaatgac acaaagcatc atctgtactc agatattaat attacctatg 480
221 tgaactacta tcttcaccag cctcaagtgg cagcaatctt cattatttcc tactttctga 540
222 tcttcttttt gtgcatgatg ggaaatactg tggtttgctt tattgtaatg aggaacaaac 600
223 atatgcacac agtcaactaat ctcttcactc taaacctggc cataagtgat ttactagttg 660
224 gcatattctg catgcctata aactgtctgg acaatattat agcaggatgg ccatttgga 720
225 acacgatgtg caagatcagt ggattgggtc agggaaatct tgtcgcagct tcagtcctta 780
226 cgttagttgc aattgctgta gatagggttc agtgtgtggt ctacctttt aaaccaaagc 840
227 tcactatcaa gacagcgttt gtcattatta tgatcatctg ggtcctagcc atcaccatta 900
228 tgtctccatc tgcagtaatg ttacatgtgc aagaagaaaa atattaccga gtgagactca 960
229 actcccagaa taaaaccagt ccagtctact ggtgccggga agactggcca aatcaggaaa 1020
230 tgaggaagat ctacaccact gtgctgtttg ccaacatcta cctggctccc ctctccctca 1080
231 ttgtcatcat gtatggaagg attggaattt cactcttcag ggctgcagtt cctcacacag 1140
232 gcaggaagaa ccaggagcag tggcacgtgg tgtccaggaa gaagcagaag atcattaaga 1200
233 tgctcctgat tgtggccctg ctttttattc tctcatggct gccctgtgg actctaata 1260
234 tgctctcaga ctacgtgac ctttctccaa atgaactgca gatcatcaac atctacatct 1320
235 accttttgc acactggctg gcattggcca acagcagtgt caatcccac atttatggtt 1380
236 tcttcaacga gaatttccgc cgtggtttcc aagaagcttt ccagctccag ctctgccaaa 1440
237 aaagagcaaa gcctatggaa gcttataccc taaaagctaa aagccatgtg ctcataaaca 1500
238 catctaatac gcttgctcag gaatctacat ttcaaaaccc tcatggggaa accttgcttt 1560
239 ataggaaaag tgcgtgaaac cccaacagga attagtgatg gaagaattaa aagaaactac 1620
240 taacagcagt gagatttaaa aagagctagt gtgataatcc taactctact acgcattata 1680
241 tattttaaat cattgctttt tgtggctttg cacttcaaat ttttcaaaga atgttctaaa 1740
242 taaaacattt actgaaagcc ctctctggca aaaaaattaa aaataaacia aaatgggtcat 1800
243 aagatcataa acaatcttat gttgtataaa aatacgtaga gtgacttaga catgtttgca 1860
244 tgaataaata tatttctaga gaacagttaa aaaaaaaaaa aaa 1903

```

246 &lt;210&gt; SEQ ID NO: 5

247 &lt;211&gt; LENGTH: 1228

248 &lt;212&gt; TYPE: DNA

249 &lt;213&gt; ORGANISM: Mus musculus

251 &lt;400&gt; SEQUENCE: 5

```

252 atgtccacca tgagcgagaa atgggactca aactcttcag aaagctggaa tcacatctgg 60
253 agtggcaatg atacacagca tcactggtat tcagatatca acattaccta tgtgaactac 120
254 tatctccacc agccccaagt ggcagctgtc ttcacagct cctacctcct gatctttgtc 180
255 ttgtgcatgg tgggaaatac tgtcgtttgc tttattgtga taaggaaatg acacatgcac 240
256 acagtcaacta atttcttgat cttaaaccct gccataagtg atttactggt tggaaatttc 300
257 tgtatgccta tcacattgct ggacaacatc atagcaggat ggccattcgg aagcagcatg 360
258 tgcaagatca gtgggctggt gcaagggata tcagttgcgg ctctcgtctt caccttggtt 420
259 gcaatagctg tggacagatt ccgctgtgtg gtctaccctt ttaagccaaa gctcactgtc 480
260 aagacagcct ttgtcacgat tgtgatcatc tggggcctgg ccatcgccat tatgactcca 540
261 tctgcaataa tgttacatgt acaagaagaa aaatactacc gtgtgagact cagctccac 600
262 aataaaacca gcacagtcta ctggtgtcgg gaggactggc caagacacga aatgaggagg 660
263 atctatacca cgggtgctatt tgccatcatc tatcttgctc ctctctcact cattgttatt 720
264 atgtatgcaa ggattggggc ttccctcttc aagacggcag cacactgcac aggcaagcag 780
265 cgtccagtg cagtgcatgta tcaagagaaa cagaaggtca tcaagatgct gctgactgtg 840
266 gccctccttt tcatcctttc ctggcttccc ctgtggaccc tgatgatgct ctgagactat 900

```

## RAW SEQUENCE LISTING

DATE: 08/01/2001

PATENT APPLICATION: US/09/719,088A

TIME: 14:21:53

Input Set : A:\92979.txt

Output Set: N:\CRF3\08012001\I719088A.raw

```
267 actgacctgt ctcctaacaa actgcgtatc atcaacatct acatctaccc tttcgcccac 960
268 tggctcgcct tctgcaacag cagtgtcaac cctattattt atggattctt taatgaaaat 1020
269 tttcgcaatg gtttccaaga tgctttccag atctgccaaa agaaagccaa gcccagga 1080
270 gcctattccc tgagagcgaa acgcaacata gtcataaaca catcgggcct gctggtgcag 1140
271 gaaccggtgt ctcaaaaccc aggtggggaa aatttgggat gtggaaaaag tgcagacaat 1200
272 ccacacagga atccttgata gaggaatg 1228
```

VERIFICATION SUMMARY

DATE: 08/01/2001

PATENT APPLICATION: US/09/719,088A

TIME: 14:21:54

Input Set : A:\92979.txt

Output Set: N:\CRF3\08012001\I719088A.raw

L:0 M:201 W: Mandatory field data missing, FILE REFERENCE  
L:8 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:28 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1  
L:33 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1